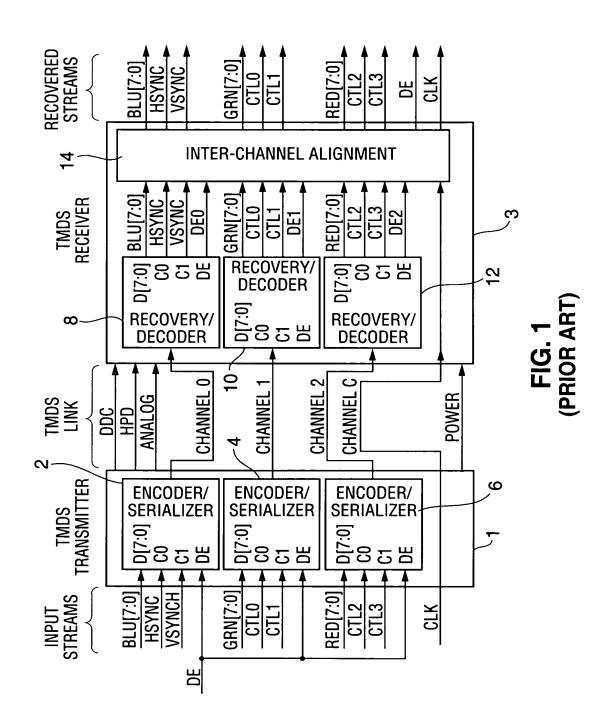


Patent Application No.: 10/085,177 Filed: February 27, 2002 Inventor's Name: James D. Lyle Attorney Docket No.: SII-900 Alfred A. Equitz/(415) 433-2250 Replacement Sheet 1 of 6



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ctl3
DE
cout
BLOCK MODULE FOR 48 CLOCKS @ EACH cntl3 RE-KEY FOR 56 CYCLES AT EACH ctl3 AND DE LOW ENCRYPTION AREA WHEN DE IS HIGH
BLANK AREA, CIPHER ENGINE IDLES

FIG. 2 (PRIOR ART) Patent Application No.: 10/085,177 Filed: February 27, 2002 Inventor's Name: James D. Lyle Attorney Docket No.: SII-900 Alfred A. Equitz/(415) 433-2250 Replacement Sheet 3 of 6

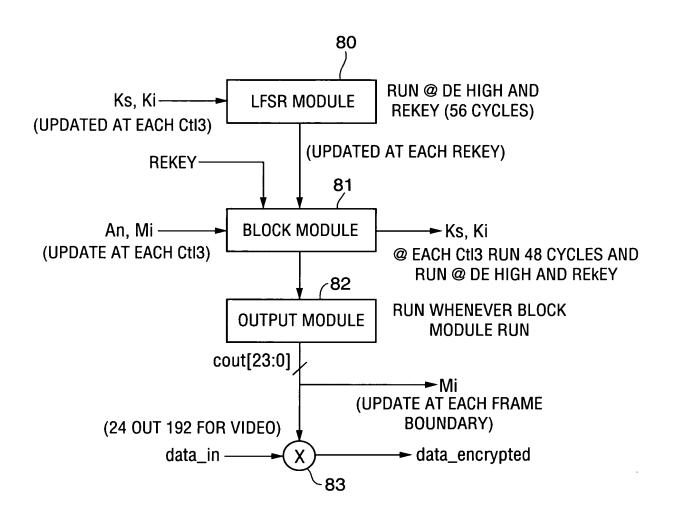
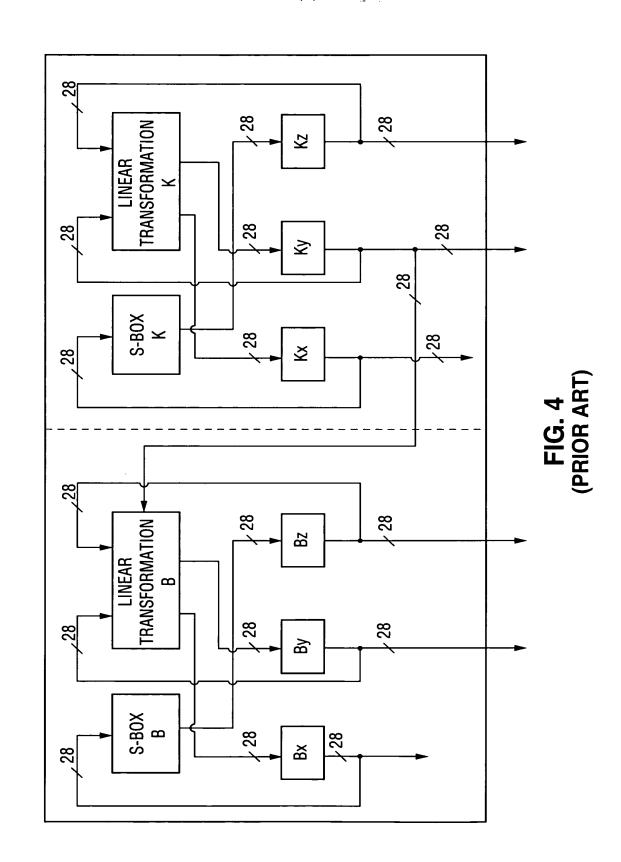


FIG. 3 (PRIOR ART)

Patent Application No.: 10/085,177
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Inventor's Name: James D. Lyle
Attomey Docket No.: SII-900
Alfred A. Equitz/(415) 433-2250
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Patent Application No.: 10/085,177 Filed: February 27, 2002 Inventor's Name: James D. Lyle Attomey Docket No.: SII-900 Alfred A. Equitz/(415) 433-2250 Replacement Sheet 5 of 6

INPUT	В0	B1	B2	В3	B4	B5	В6	В7	K0	K1	K2	КЗ	K4	K5	K6	K7
ORIGIN	Bz	Ву	Kz	Kz	Kz	Kz	Kz	Kz	Kz	Ку						
OUTPUT BIT					_											
0	17 5	26 20	22 15	27 24	21 2	18 25	2	5 16	3 20	6 18	0 7	9 23	4 15	22 5	5 3	10 25
2	22	5	14	16	25	17	20	11	7	19	2	10	22	4	13	21
3	19	3	15	11	21	16	27	1	6	14	9	8	17	18	12	24
4	19	6	17	18	22	7	9	12	25	6	5	2	10	15	21	8
5	3	7	4	8	16	6	5	17	27	14	2	4	24	19	1	12
6	8	21	27	2	11	24	12	3	17	26	4	16	27	7	22	11
7	9	5	7	4	8	13	3	15	9	10	19	11	7	6	8	23
8	26	13	23	10	11	7	15	19	13	12	18	24	15	23	7	16
9	1	0	19	11	13	16	24	18	0	5	20	25	1	24	9	27
10 11	26	13	9	14	10	4	1	2	14	23	27	25	17	19	1	22
12	21 20	15 7	5 18	3 12	13 17	25 1	16 16	27	6 11	21	17	15	26 26	11 23	16 17	7 2
13	14	23	10	12	24	•	18	0	8	22 4	20	0 14	20		23	15
14	19	6	21	25	23	6 1	10	9	19	0	18	2	13	26 8	24	14
15	3	0	27	23	19	8	4	7	16	21	24	25	12	27	15	18
16	6	5	14	22	24	18	2	21	3	5	8	25	7	27	2	26
17	3	4	2	6	22	14	12	26	11	14	23	17	22	13	19	4
18	25	21	19	9	10	15	13	22	1	16	14	11	12	6	10	19
19	23	11	10	20	1	12	14	4	21	1	10	20	18	26	9	13
20	11	26	20	17	8	23	0	24	20	21	9	25	12	3	15	0
21	9	17	26	4	27	0	15	6	18	12	21	27	1	16	24	20
22	22	12	2	10	7	20	25	13	13	0	3	16	22	11	26	9
23	27	24	26	8	0	9	18	23	2	0	13	5	4	8	10	3

FIG. 5 (PRIOR ART)

Patent Application No.: 10/085,177 Filed: February 27, 2002 Inventor's Name: James D. Lyle Attorney Docket No.: SII-900 Alfred A. Equitz/(415) 433-2250 Replacement Sheet 6 of 6

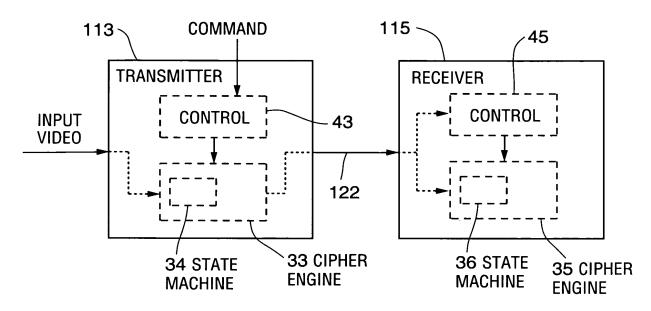


FIG. 6

